

## Abstract

[0050] A method and an arrangement for the optical examination and/or processing of a sample comprise means for generating an illumination light, means arranged downstream of the latter for spectral splitting of the illumination light for generating spatially separated spectral components, means for parallelizing the split illumination light, means for focusing the illumination light on or in the sample, wherein the spectral components are superposed, and means for detecting the sample light, advantageously comprising means for generating a short-pulse illumination light, means arranged downstream of the latter for spectral splitting of the illumination light for generating spatially separated spectral components with pulse lengths that are greater than the pulse length of the illumination light, wherein these spectral components are combined again in the sample.